

RECEIVED Attorney Ref: 19944.0044

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TO 2000 , MIL ROOM

In re application of

Alek C. Chen

Serial No.: 09/502,062

Filed: February 10, 2000

Title: IN SITU PROXIMITY GAP MONITOR

FOR LITHOGRAPHY

Commissioner of Patents and Trademarks Washington, D.C. 20231

Examiner: Unassigned

Art Unit: 2877

TRANSMITTAL OF POWER OF ATTORNEY BY ASSIGNEE

Dear Sir:

The applicant hereby submits a Power of Attorney in the above-identified application appointing Swidler Berlin Shereff Friedman, LLP with power to prosecute the above-identified application. Please direct future correspondence and communication to Swidler Berlin Shereff Friedman, LLP as indicated in the Power of Attorney. BAE Systems Information and Electronic Systems Integration, Inc. is the assignee of the entire right, title and interest in the above-identified application by virtue of:

- A copy of the enclosed assignment from Lockheed Martin Corporation to BAE Systems Information and Electronic Systems Integration, Inc;
- 2) A copy of the Notice of Recordation of Assignment from the inventor to Lockheed Martin Corporation which has been recorded at reel 010601, frame 0598.

If any fees are due in order to enter the Power of Attorney, the Commissioner is hereby authorized to charge to Deposit Account No.19-5127, Docket 19944.0044. If you have any questions, please feel free to contact the undersigned.

Respectfully submitted,

Date: December 7, 2001

Robert C. Bertin

Registration No. 41,488

SWIDLER BERLIN SHEREFF FRIEDMAN, LLP

3000 K Street, N.W., Suite 300

Washington, D.C. 20007

(202) 424-7500

TO:2229584



POWER OF ATTORNEY BY ASSIGNEE ROUP

The undersigned assignee of the entire interest in the patent applications and issued patents identified in the attached Exhibit A, by virtue of that certain assignment agreement dated November 27, 2000 by and among BAE Systems Information and Electronic Systems Integration, Inc. and Lockheed Martin Corporation, elects to conduct the prosecution of the patent applications and maintenance of the patents to the exclusion of the inventor(s) and earlier assignees.

The undersigned hereby declares that he has reviewed the above-referenced assignment and hereby declares that, to the best of his knowledge, title is in the Assignee, and further declares that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true. The assignee hereby revokes any previous powers of attorney and appoints the following attorneys, all of Swidler Berlin Shereff Friedman, LLP, to prosecute the patent applications and maintain the patents listed in the attached Exhibit A and transact all business in the Patent and Trademark Office connected therewith:

Edward A. Pennington	32,588	John P. Moran	30,906
Michael A. Schwartz	40,161	Robert C. Bertin	41,488
Alicia A. Meros	44,937	Chadwick A. Jackson	46,495
Sean P. O'Hanlon	47,252	Eric J. Franklin	37,134

Please send all written communications to:

Edward A. Pennington Swidler, Berlin, Shereff, Friedman, L.L.P. 3000 K Street, Washington, D.C. 20007 Fax (202) 295-8478

Please direct all telephone calls to: Robert C. Bertin, 202-424-7872.

ASSIGNEE

BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION, INC.

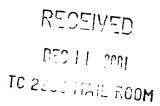
Date: November 15, 200

Cevin M. Perkins

Title: Vice President and Secretary-

Company General Counsel for its IEWS business





Title:	Application	Filing Date:	Patent	Issue Date:
一	Number:		Number:	作 表 字 素
Error Detection And Fault Isolation For	08/660640	07-Jun-1996	5.915.082	22-Jun-1999
Lockstep Processor Systems				
Process To Personalize Master Slice Wafers	08/728880	10-Oct-1996	5,858,817	12-Jan-1999
And Fabricate High Density VLSI				
Components With A Single Masking Step				
Fault Tolerant MOSFET Driver	08/733080	16-Oct-1996	5,796,274	18-Aug-1998
Electrostatic Discharge Protection For	08/812183	06-Mar-1997	6,034,399	07-Mar-2000
Silicon-On-Insulator				
Ring Domains For Bandwidth Sharing	08/812184	06-Mar-1997	5,901,148	04-May-1999
Secure Data Transmission On A TDM	08/837165	14-Apr-1997	5,970,095	19-Oct-1999
Isochronous Network	100,000	1	0,770,070	17-001-1777
Digital Multi-Channel	08/884650	27-Jun-1997	5,867,479	02-Feb-1999
Demultiplexer/Multiplex (MCD/M			0,007,-177	02 105 1777
Architecture)				
Control And Telemetry Signal	08/884675	27-Jun-1997	6,188,874B1	13-Feb-2001
Communication System For Geostationary				
Satellites				
Shallow Isolation Trench Forming Process	08/987016	09-Dec-1997		
For Silicon-On-Insulator Technology				
Reversible Keypad And Display For A	08/989463	12-Dec-1997	6.052.606	18-Apr-2000
Telephone Handset				
Integrated Circuit Package And Method	09/007980	16-Jan-1998		
Increasing Density Of I/O Leads				
Multi-Channel Overvoltage Protection	09/030902	26-Feb-1998	6.127,879	03-Oct-2000
Circuit				
Digital Multi-Channel	09/241313	01-Feb-1999	6,091,704	18-Jul-2000
Demultiplexer/Multiplexer (MCD/M)				
Architecture				
Error Detection And Fault Isolation For	09/325641	04-Jun-1999	6,065,135	16-May-2000
Lockstep Processor Systems				
Radiation Hardened Six Transistor Random	09/325645	04-Jun-1999	6,111,780	29-Aug-2000
Access Memory And Memory Device				
Satellite Telephone Handset	09/384429	27-Aug-1999		
Enhanced Single Event Upset Immune	09/480454	11-Jan-2000	6,275,080	14-Aug-2001
Latch Circuit				
In Situ Proximity Gap Monitor For	09/502062	10-Feb-2000		*
Lithography		-		
Method And Apparatus For A Single Event	09/559659	28-Apr-2000		
Ups_t (SEU) Tolerant Clock Splitter		,		}
Method And Apparatus For A Scannable	09/559660	28-Apr-2000		
Hybrid Flip Flop		. q =		
Method And Apparatus For A SEU Tolerant	09/559661	28-Apr-2000		
Clock Splitter		j —		

PAGE:04/04

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Title:	Application Number:	Filing Date:	Patent Numb r:	Tissue Date:
Distributed Determination Of Explicit Rate In An ATM Communication System	09/570050	12-May-2000	10 20 22 113	L ROOM
Self-Equalized Low Power Precharge Sense Amp For High Speed SRAMs	09/570064	12-May-2000		
Tool Suite For The Rapid Development Of Advanced Standard Cell Libraries	09/597229	20-Jun-2000		
Digital Multi-Channel Demultiplexer/Multiplexer (MCD/M) Architecture	09/625641	25-Jul-2000		
Elimination Of Narrow Device Width Effects In Complementary Metal Oxide Semiconductor (CMOS) Devices	09/741028	21-Dec-2000		
Ball Grid Array (BGA) To Column Grid Array (CGA) Conversion Process	09/774010	31-Jan-2001		
Polyphase-Discrete Fourler Transform (DFT) Sub-band Definition Filtering Architecture	09/780348	12-feb-2001		
Method And Apparatus For A Radiation Hardened Clock Splitter	09/838131	20-Apr-2001		

PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT is made and entered into as of the 27th day of November 2000, between Lockheed Martin Corporation, a Maryland corporation ("Assignor"), and BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC. (formerly known as BAE SYSTEMS Sanders Inc.), a Delaware corporation ("Assignee").

WITNESSETH:

WHEREAS, Assignor is the owner of the entire right, title and interest in and to all of the patents and patent applications set forth on Schedule A annexed hereto and made a part hereof and has the unrestricted right to sell, assign and transfer such patents and patent applications; and

WHEREAS, pursuant to the terms of a Transaction Agreement, dated as of July 13, 2000, by and among Assignor, Assignee and BAE SYSTEMS North America Inc., a Delaware corporation, Assignor has agreed, among other things, to transfer to Assignee said patents and patent applications;

NOW. THEREFORE, in consideration of the sum of ten (\$10.00) dollars and other good and valuable consideration paid by Assignee to Assignor, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby sells, assigns, transfers and sets over to Assignee, its successors and permitted assigns, Assignor's entire right, title and interest in and to the patents and patent applications set forth on Schedule A hereto, including (without limitation) all divisions, reissues, substitutions, continuations and extensions thereof, all priority rights under the International Convention for the Protection of Industrial Property for every member country (and any other international convention or treaty), any and all Letters Patent and reissues and extensions of Letters Patent granted thereon and any and all rights corresponding to any of the foregoing throughout the world and any and all accounts, contract rights, warranties, litigation claims and rights, including the right to sue for and collect upon all claims for profits and damages as a result of past infringement, if any, and other general intangibles of Assignor related to any of the foregoing, in each case whether now existing or hereafter acquired or created, whether owned, leased or licensed beneficially or of record and whether owned, leased or licensed individually, jointly or otherwise, together with the products and proceeds thereof (including license royalties and the proceeds of infringement suits), all payments and other distributions with respect thereto and any divisions, reissues, substitutions, continuations and extensions of any and all of the foregoing (all of the foregoing herein collectively referred to as the "Patents").

Assignor further agrees that it shall on the date hereof and from time to time thereafter, at the request of Assignee, perform or cause to be performed such acts and execute, acknowledge and deliver at the request of Assignee, such documents as may reasonably be required to evidence or effectuate the sale, conveyance, assignment, transfer and delivery to Assignee of the Patents or for the performance by Assignor of any of its obligations hereunder.

IN WITNESS WHEREOF, Assignor has executed this Patent Assignment as of the date above written.

LOCKHEED MARTIN CORPORATION

BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC.

Title: Vice Proydent

DISTRICT OF COLUMBIA ss.:

·
On the 27th day of November, 2000, before me personally came worren w. Lahning, to me known (or satisfactorily proven), who being by me duly sworn, did depose and say that he is the Director, Business Verfuesof Lockheed Martin Corporation, the corporation described in, and which executed the foregoing
instrument, and that he was fully authorized to execute this Patent Assignment on behalf of said corporation.
Notary Public
DISTRICT OF COLUMBIA ss.:
On the day of Naveruler, 2000, before me personally came to me known (or satisfactorily proven), who being by me duly sworn, did depose and say that he is the Vice Revolute and Successful in, and which executed the foregoing instrument, and that he was fully authorized to execute this Patent Assignment on behalf of said corporation.
Notar Public

SCHEDULE A

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LM Space Electronic	
LM Space Electronics & Communications	

CaseNumber Tille	r Tide		Country Status	Status	File Date	File Date ApplNumb	Issue Date	Issue Date PatNumber
FE-00003	High Dens	High Density Integrated Circuit						
			ns	Expired	24-Jan-1979	5946	17-Jun-1980	4,208,079
	•		٦٢	Abandone	20-Dec-1979	164876/79	20-Jan-1984	1185552
FE-00006	Process fo	Process for Increasing the Immunity of IC to lonizing Radiation	ing Radia	tion				
			NS	Secret	28-Jun-1982	393,012	÷	
FE-00007	FET Read	FET Read Only Memory Cell With Work Line Augmented Precharging Of Bit Lines	gmented P ₁	recharging (of Bit Lines			
			Ę,	Abandone	15-May-1984	095787/84	10-Nov-1988	1464935
			СВ	Granted	24-Jut-1984	84108711.7	27-Sep-1989	0135699
			FR	Granted	24-Jul-1984	84108711.7	27-Sep-1989	0135699
			۸ĭ	Granted	24-Jul-1984	084108711.7	27-Sep-1989	0135699
			กร	Granted	20-Sep-1983	534,035	16-Feb-1988	4,725,986
			DE	Granted	24-Jul-1984	084108711.7	27-Sep-1989	0135699
			EP	Granted	24-Jul-1984	84108711.7	27-Sep-1989	0135699
FE-00008	Improved	Improved Local Oxide Isolation Process						
			SN	Secret	06-Jul-1984	643,902		

CaseNumber Tide	- 110c	Country Status	Status	File Date	File Date AmilNumb	Issue Date	PatNumber
FE-00009	High Density, High Performance, Single Event Upset Immune Data	Jpset Immu	2				
		SN	Granted	09-Mar-1987	23,426	10-Jan-1989	4,797,804
		FR	Granted	22-Jan-1988	88100947.6	13-Jan-1993	281,741
		٦	Granted	20-Jan-1988	000597/88	07-Oct-1994	1878682
		EP	Granted	22-Jan-1988	88100947.6	13-Jan-1993	281,741
		89	Granted	22-Jan-1988	88100947.6	13-Jan-1993	281,741
		DE	Granted	22-Jan-1988	88100947.6	13-Jan-1993	3877381308
FE-00010	Parity Generator Circuit And Method				,		
		EP	Pending	23-Jan-1989	89101069.6	•	
		SN	Granted	17-Feb-1988	156,626	07-Nov-1989	4,879,675
		dГ	Lapsed	18-Nov-1988	290385/88	14-Oct-1992	1703279
FE-00012	Soft Error Resistant CMOS Data Cells						
		SN	Granted	31-Mar-1988	176,052	25-Jul-1989	4.852,060
		CO	Lapsed	23-Dec-1988	88121619.6	10-Jun-1992	335,008
		ď	Pending	20-Feb-1989	38541/89		
		DE	Lapsed	23-Dec-1988	88121619.6	10-Jun-1992	3871945208
		FR	Lapsed	23-Dec-1988	88121619.6	10-Jun-1992	355,008
FE-00016	Process for Increasing the Immunity of IC to Ionizing Radiation	nizing Radia	ıtion				
		NS	Secret	13-Sep-1988	246,136		

FE-00017 Zero Standby Power, Radiation Hardward, Memory Rechandancy (Trecuit Circuit Circu	
Canted 03-May-1990 0100357.6	
DE Granted 03-May-1990 90100357.6	21-Aug-1996 419,760
JP Granted 07-Sep-1990 236022/90 US Granted 28-Sep-1999 414,809 GB Granted 28-Sep-1999 414,809 GB Granted 03-May-1990 90100357.6 WO Pending 09-Sep-1990 236022/90 MO Pending 09-Sep-1990 236022/90 US Secret 13-Jun-1990 544,140 CALOS Off Chip Driver for Fault Talerant Cold Spuring EP Granted 08-0ct-1991 9117104.9 Article of Chip Driver for Fault Talerant Cold Spuring Granted 08-0ct-1991 9117104.9 B Granted 08-0ct-1991 9117104.9 Granted of Forming A frontside Contact to the Silicon Substrate of a SOI Wafer SOI IVAfer Bowiews And Method Of Enbrivation Dovices And Method Of Enbrivation Bowiews Vield Effect	21-Aug-1996 69028169.2
US Granted 20-Sep-1909 414,000	17-Dec-1999 3015084
GB Granted 03-May-1990 90106357.6 WO Pending 09-Sep-1990 236022/90 A Method for improving gate axide reliability of SOI in Mexa Type Transistors. US Secret 13-Jun-1990 544,140 CMOS Off Chip Driver for Fault Tolerant Cold Sparring EP Granted 08-Oct-1991 91117104.9 JP Granted 08-Oct-1991 91117104.9 US Granted 08-Oct-1991 9117104.9 US Granted 08-Oct-1991 9117104.9 Wethod of Forming A frontside Contact to the Silicon Substrate of a SOI Wafer Small Cell Low Contact Axistance Rugged Power Field Effect Davices And Method Of Fabrication	26-Feb-1991 4,996,670
FR Granted 03-May-1990 90106357.6 WO Pending 09-Sep-1990 236022/80 A Method for improving gate axide reliability of SOI in Mexa Type Transistars. US Secret 13-Jun-1990 544,140 CMOS Off Chip Driver for Fault Tolerant Cold Sparing EP Granted 08-Oct-1991 290475/91 DE Granted 08-Oct-1991 29117104.9 FR Granted 08-Oct-1991 9117104.9 US Granted 08-Oct-1991 9117104.9 Wethod of Forming A frontside Contact to the Silicon Substrate of a SOI Wafer JP Granted 0 6-Oct-1991 9117104.9 Devices And Method Of Enbrication	21-Aug-1996 419,760
A Method for improving gate axide reliability of SOI in Mexa Type Transistors. US Secret 13-Jun-1990 544,140 US Secret 13-Jun-1990 544,140 CMOS Off Chip Driver for Fault Tolerant ("old Sparing EP Granted 08-Oct-1991 290475/91 DE Granted 08-Oct-1991 91117104.9 FR Granted 08-Oct-1991 91117104.9 Wethod of Forming A frontside Contact to the Silicon Substrate of a SOI Wafer JP Granted 28-Mar-1994 057624/94 Small Cell Low Contact Assistance Rugged Power Field Effect Devices And Method Of Fabrication	21-Aug-1996 419,760
US Secret 13-Jun-1990 544,140 CMOS Off Chip Driver for Fault Tolerant Cold Sparing EP Granted 08-Oct-1991 91117104.9 JP Granted 08-Oct-1991 91117104.9 FR Granted 08-Oct-1991 91117104.9 FR Granted 08-Oct-1991 91117104.9 US Granted 08-Oct-1990 598,300 GB Granted 08-Oct-1991 91117104.9 JP Granted 08-Oct-1991 91117104.9 Acthor of Forming A frontside Contact to the Silicon Substrate of a SOI Wafer JP Granted 28-Mar-1994 057624/94 Small Cell Low Contact Assistance Rugged Power Field Effect	,
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JP Granted 11-Oct-1991 290475/91	28-Feb-1996 481,329
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FR Granted 08-Oct-1991 91117104.9 US Granted 16-Oct-1990 598,300 GB Granted 08-Oct-1991 91117104.9 Method of Forming A frontside Contact to the Silicon Substrate of a SOI Wafer JP Granted 28-Mar-1994 057624/94 Small Cell Low Contact Assistance Rugged Power Field Effect	28-Feb-1996 69117420.2
US Granted 16-Oct-1990 598,300 GB Granted 08-Oct-1991 91117104.9 Method of Forming A frontside Contact to the Silicon Substrate of a SOI Wafer JP Granted 28-Mar-1994 057624/94 Small Cell Low Contact Assistance Rugged Power Field Effect	28-Feb-1996 481,329
GB Granted 08-Oct-1991 91117104.9 Method of Forming A frontside Contact to the Silicon Substrate of a SOI Wafer JP Granted 28-Mar-1994 057624/94 Dovices And Method Of Fobrication	26-May-1992 5,117,129
Method of Forming A frontside Contact to the Silicon Substrate of a SOI Wafer JP Granted 28-Mar-1994 057624/94 Small Cell Low Contact Assistance Rugged Power Field Effect	28-Feb-1996 481,329
JP Granted 28-Mar-1994 057624/94 Small Cell Low Contact Assistance Rugged Power Field Effect Dovices And Method Of Fobrication	-
	02-Dec-1996 . 2509952
US Granted 03-Feb-1992 829,667	10-Aug-1993 5,234,851
Tuesday, November 21, 2000	Page 3 of 20

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CaseNumber Title	ı	Country Status	Status	File Date	File Date ApplNumb	Issue Date	Issue Date PatNumber	
FE-00031	Distributed Programmable Priority Arbitration							
	.	ď	Granted	01-Mar-1993	39810/93	27-Jun-1996	2531918	
	ח	ns	Granted	30-Apr-1992	676,239	26-Apr-1994	5,307,466	-
FE-00035	Fast Fourier Transform Using Balanced Coefficients	ن ہ						
	יי יי	ط	Granted	22-Oct-1991	301336/91	13-Jun-1997	2662124	
	H	ЕР	Pending	13-Jun-1991	91109688.1			
		ns	Granted	13-Jan-1993	004,217	15-Nov-1994	5,365,469	
FE-00040	An Electrostatic Discharge Protect Diode For Silicon-On- Insulator Technology	···-O···						
	7	JP	Granted	28-Mar-1994	6-57668/94	09-May-1997	2647339	
]	UE	Granted	17-Feb-1994	94102415.0	21-Apr-1999	0622850	
	L.	FR	Granted	17-Feb-1994	94102415.0	21-Apr-1999	0622850	
		ЕР	Granled	17-Feb-1994	94102415.0	21-Apr-1999	0622850	
		GB	Granted	17.Feb-1994	94102415.0	21-Apr-1999	0622850	
		ns	Abandone	30-Apr-1993	056,042			
FE-00041	Method To Prevent Latch-Up And Improve Breakdown Voltage In SOI Mosfets	wn Volle	อธิเ					
		ЕР	Pending	17-Feb-1994	94102414.3			
		NS	Granted	12-Sep-1994	304,639	18-Jun-1996	5,527,724	

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CaseNumber Title		Country Status	Status	File Date	File Date ApplNumb	Issue Date	Issue Date PatNumber
FE-00042	A Method Of Forming A Frontside Contact To the Silicon Substrate Of A SOI Wafer	Silicon					
		SN	Granted	30-Apr-1993	054,992	24-May-1994	5,314,841
		OE OE	Pending	17-Feb-1994	94102416.8		
		EP	Pending	17-Feb-1994	94102416.8		
		م	Granted	18-Apr-1994	078654/94	26-Feb-1999	2891321
		GB	Pending	17-Feb-1994	94102416.8		
		FR	Pending	17-Feb-1994	94102416.8		
FE-00052	Power Bus Digital Communication System						
		ns	Granted	04-Oct-1993	131,346	01-Jul-1997	5,644,286
FE-00057	Single Even Upset Hardening Of Commercial VLSI Technology Without Circuit Redesign	J Pechnol	ogy Without	Circuit Redes	ign		
		SN	Pending	26-Oct-1993	141,505		
		ر	Abandone	19-Oct-1994	6-253600		
		EP	Pending	30-Aug-1994	94113502.2		
FE-00060	Method To Radiation Harden The Buried Oxide In Silicon-On-Insulator Structures	=					
		Sn	Granted	28-Oct-1993	142,030	01-Nov-1994	5,360,752
		ЕР	Granted	14-Oct-1994	94116233.1	22-Dec-1999	652591A1
FE-00069	Spare Signal Line Switching Method and Apparatus	sn.					
		NS	Granted	14-Mar-1994	212,372	05-Sep-1995	5,448,572
		ဌ	Granted	26-Jun-1992	168828/92	21-Nov-1996	2113094

CaseNumber Title FE-00070 Gate Devis	er Title Gate Over Devices	Title Gate Overlapped Lightly Doped Drain For Buried Channel Devices	Status	File Date	File Date ApplNumb	Issue Date	PatNumber
		89	Granted	26-May-1994	94108054.1	29-Nov-1995	0684640
		nS	Granted	30-Apr-1993	054,994	25-Oct-1994	5,358,879
		FR	Granted	26-May-1994	94108054.1	29-Nov-1995	684640
		дſ	Granted	04-Jun-1994	6.127422	19-Sep-1997	2698046
		DE	Granted	26-May-1994	94108054.1	29-Nov-1995	0684640
		EP	Granted	26-May-1994	94108054.1	10-Nov-1999	0684640
FE-00071	Current C	Current Overload Protection Circuit				•	
		SN	Granted	12-Jan-1995	371,718	10-Oct-1995	5,457,591
FE-00072	Single Eve	Single Event Upset Hardened CMOS Latch Circuit					
·		SN	Granted	01-Feb-1995	362.112	02-Apr-1996	5.504.703
FE-00073	Magnifico Lithograp	Magnification Correction For 1-X Proximity X-Ray Lithography					
		sn	Granled	17.Feb-1995	389,993	02-Apr-1996	5,504,793
FE-00074	Single Ev	Single Event Upset Immune Register With Fast Write Access	<i>S</i> '3				
		sn	Granted	21-Feb-1995	391,798	11-Jun-1996	5,525,923

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CaseNumber Title	er Tide	Country Status	Status	File Date	File Date ApplNumb	Issue Date	PutNumber
FE-00075	Checkpoint Retry Mechanism						
		NS	Abandone	23-Aug-1988	235,345	27-Mar-1990	4,912,707
		드	Abandone	11-Aug-1989	0207115	07-Apr-1995	1922412
		СВ	Abandone	08-Jun-1989	89110329.3	13-Aug-1995	0355286
		DE	Abandone	08-Jun-1989	89110329.3	13-Aug-1995	0355286
		FR	Abandone	08-Jun-1989	89110329.3	13-Aug-1995	0355286
		ЕР	Abandone	08-Jun-1989	89110329.3	13-Aug-1995	0355286
FE-00090	Efficient Dual Source Fault Tolerant Power Controller	troller					
		SN	Granted	16-Nov-1995	559,584	28-Jan-1997	5,598,041
FE-00091	A Scaleable, Radiation Hardened Shallow Trench Isolation	h Isolation					
		ns	Abandone	01-Jul-1999	60/142,035		
		SN	Pending	30-Jun-2000			
FE-00092	Apparatus And Method For Cooling Standard Electronic Modules	ectronic					
		SN	Abandone	19-Jan-1996	588,804		
FE-00101	Error Detection and Fault Isolation For Lockstep Processor Systems	p Processo	r Systems				•
		Sn	Granted	07-Jun-1996	660,640	22-Jun-1999	5,915,082
		Sn	Granted	04-Jun-1999	325,641	16-May-2000	6,065,135
FE-00107	X-Ray Mask Pellicle						
		S	Granted	06-Sep-1996	716,657	11-Aug-1998	5,793,836

CaseNumber Title FE-00113 Proc High	ess To Personalize Master Slice Wafer And F Density VLSI Components With A Single Ma	Country Status abricate sking Sten	File Date	File Date ApplNumb	Issue Date	PatNumber
	sn s	// Granted	10-Oct-1996	728,880	12-Jan-1999	5,858,817
FE-00114	Fault Tolerant MOSFET Driver		•			
	NS	Granted	16-Oct-1996	733,060	18-Aug-1998	5,796,274
FE-00115	Lithographic Patterning Method And Mask Set Therefor With Light Field Trim Mask	ith				
	Sn	Granted	31-Oct-1996	740,598	15-Sep-1998	5,807,649
FE-00121	Ring Domains For Bandwidth Sharing				•	
	Sn	Granted	06-Mar-1997	812,164	04-May-1999	5,901,148
FE-00122	Electrostatic Discharge Protection For Silicom-On-Insulation	ion				
	SN	Granled	06-Mar-1997	812,183	07-Mar-2000	6,034,399
FE-00124	Dual Mode Telephone Handset Satellite Telephone Handset -					
	SN	Granted	27-Mar-1997	29069642	28-Sep-1999	D414,486
FE-00124-1	FE-00124-1 Satellite Telephone Handset					
EE.00126	US Secure Data Transmission on A TDM Isachranaus Natuurk	Pending	27-Aug-1999	384,429	-	
	SN	Granled	14-Apr-1997	837,165	19-Oct-1999	5,970,095

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CaseNumber Tide FE-00130 Impr	r Title Improved Control Telemetry Signal Communication System For Geostationary Satellites	Country Status on System For Ge	Status For Geostat	File Date ionary Satellii	File Date ApplNumb . ny Satellites	Issue Date	PatNumber
		NS	Pending	27-Jun-1997	884,675		
		NS	Pending	23-Dec-1999	884,675		
FE-00131	Digital Multi-Channel Demultiplexer/Multiplexer (MCD/M) Architecture	· (MCD/M)					
		SN	Pending	25-Jul-2000	625,641		
		ns	Granled	27-Jun-1997	884,650	02-Feb-1999	5,867,479
		NS	Granted	01-Feb-1999	241,313	18-Jul-2000	6,091,704
FE-00144	Dual Mode Collision Avoidance System				٠		
		Sn	Abandone				
FE-00165	Radiation Hardened Six Transistor Random Access Memory and Memory Device	ss Memory	and Memor	y Device			
		SN	Abandone	04-Jun-1998	090,946		
		Sn	Granted	05-Jun-1999	325,645	29-Aug-2000	6,111,780
		WO	Pending	04-Jun-1999	US99/12442		
FE-00170	Enhanced TRENCH Isolation (STI) Method for Fabricating Radiation-Tolerant Integrated Circuit Devices.	abricating	Radiation-7	olerant Integr	rated Circuit De	vices.	
		ns	Pending	30-Jun-2000	512,671		
FE-00172	High Accuracy Fabrication Of X-Ray Masks With Optical And E-Beam Lithography	h Optical A	puq				
		Sn	Granted	04-Jun-1996	663,826	26-May-1998	5,756,234
FE-00185	Integrated Circuit Package and Method Increasing Density Of 1/0 Leads	ng Density	Of I/O Lead	بئ			
		SO	Pending	16-Jan-1998	086'200		

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Distributed Descriptionally baptien whe in an zero communication system	mication System			
US Expired 03-Jun-1999 60/137,595 US Expired 19-Oct-1999 60/160,302 US Pending 12-May-2000 570,050 Elimination of Narrow Device Width Effects In Complementary Metal Oxide Semiconductor (CMOS) Devices	Expired 03-Jun-1999 Expired 19-Oct-1999 Pending 12-May-2000 ary Metal Oxide Semicon	60/137,595 60/160,302 7 570,050 9 mductor (CMOS)) Devices	
US FE-00233 Reversible Keypad And Display For A Telephone Handset	Unified			
US FE-00239 Recessed Gate Process For Silicon-On-Insulator Devices	Granled 12-Dec-1997	7 989,463	18-Apr-2000	6,052,606
US Abandone 04-Nov-1 FE-00258 Shallow Isolation Trench Forming Process For Silicon-on-Insulator Technology	Abandone 04-Nov-1997 isulator Technology	7 964,022		
US Pending 09-Dec-1 FE-00275 Cold Spare and Voltage Interoperable Off-Chip Driver and Associated Methods	Pending 09-Dec-1997 Associated Methods	7 987,016		
US Pending 05 US Expired 02 FE-00276 Self Equalized Low Power Precharge Scnse AMP For High Speed Memory	Pending 05-May-2000 Expired 02-Jun-1999 Speed Memory	10 566,178 9 60/137,174		
sn sn	Pending 12-May-2000 Expired 10-Feb-2000 Expired 01-Jun-1999	00 570,064 0 60/181,559 9 60/137,224		
Tuesday, November 21, 2000				Page 10 of 20

CaseNumber Title FE-00277 A Me	er Title A Memory Device Having Reduced Power Requirements And Associated Methods	Country Status ements And Assoc	Status I Associated	File Date Methods	File Date ApplNumb thods	Issue Date	PatNumber
FE-00278	US Pending 26-May-199 A Memory Device Having A Chip Select Speedup Feature and Associated Methods	US Feature an	Pending Id Assaciate	26-May-1999 d Methods	320,227		
FE-00279	US Pending Single Event Upset Hardened CMOS Latch Circuit With Fast Write Time	us ir With Fa	Pending st <i>Write Tim</i>	26-May-1999 <i>e</i>	320,207		
FE-00291	Multi-Channel Overvoltage Protection Circuit	ns	Abandone	07-Oct-1998	168,430	·	
FE-00295	US Granled 26-Feb-1998 Method For Fabricating Resistors Within Semiconductor Integrated Circuit Devices	US nductor In	Granted Tegrated Cir	26-Feb-1998 cuit Devices	030,902	03-Oct-2000	6,127,879
FE-00300	In Situ Proximity Gap Monitor For Lithography	us us	Pending Expired	25-Jan-2000 01-Feb-1999	491,230		
FE-00319	US Pending 10-Feb-2000 502,062 US Expired 24-Sep-1999 60/155,571 Enhanced Local Oxidation of Silicon (LOCOS) Method for Fabricating Radiation-Tolerant Integrated Circuit Devices	us us tethod for	Pending Expired Fabricating	10-Feb-2000 24-Sep-1999 Radiation-Tol	502,062 601155,571 erant Integratea	d Circuit Devi	səə
		sn	Unfiled				

PatNumber					Pake 12 of 20
Issue Date	cets	•			
File Date ApplNumb	480,454 US00/00557 60/145,939 Igle Event Ups	441,941 US99/27302 US99/27302 US99/27302	60/136,480 (rex 60/139,897	559,661	559,060 US00/11348 60/132,121
File Date	11-Jan-2000 11-Jan-2000 28-Jul-1999 . Cell From Sin	17-Nov-1999 17-Nov-1999 17-Nov-1999 17-Nov-1999	28-May-1999 ed Circuit Dev 22-Jun-2000 22-Jun-1999	30-Apr-1999 28-Apr-2000	28-Apr-2000 28-Apr-2000 30-Apr-1999
Status	Pending Pending Expired	Pending Pending Pending Pending	Abandone :for Integrate Pending Expired	Expired Pending	Pending Pending Expired
Title Enhanced Single Event Upset Immune Latch Circuit	US Pending 11-Jan-2000 480,454 WO Pending 11-Jan-2000 US00/00557 US Expired 28-Jul-1999 60/145,939 Method and Apparatus for Hardening A Static Random Access Memory Cell From Single Event Upsets	US DE GB FR FR	US Abandone 28-May-1999 607 Method Far Improving Radiation Tolerance of Semiconductor Integrated Circuit Devices US Pending 22-Jun-2000 US Expired 22-Jun-1999 604	US US Method and Apparatus for A Scannable Hybrid Flip Flop	SO SO
r Tide Enhanced S	Method and		Method Far	Method and	Tuesday, November 21, 2000
CaseNumber Title FE-00320 Enha	FE-00321		FE-00324 FE-00352	FE-00354	Tuesday, Nov

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CaseNumber Title FE-00371 Patte	r Title Pattern Density Tailoring For Etching of Advanced Lithographic Masks	Country Status ved Lithographic M	Status aphic Masks		File Date ApplNumb	Issue Date	Issue Date PatNumber
FE-00372	US Pending 07-May-1999 307,126 Method and Apparatus For Evaluating A Known Good Die Using Both Wire Bond and Flip-Chip Interconnects	us Good Die	Pending Uxing Both	07-May-1999 Wire Bond and	307,126 I Flip-Chip Inte	гсоппесія	
FE-00375	us Pending Single-Event Upset Hardened Reconfiguration Bi-Stable CMOS Latch	us i-Stable CN	Pending 40S Latch	28-May-1999	321,565		
		ow s	Pending Pending	20-Jan-2000 24-Nov-1999	US00/01356 449,723	•	
FE-00385	US Abandone Method and Apparatus for a Voltage Responsive RESET for EEPROM	us RESET for	Abandone "EEPROM	23-Dec-1999	60/171,589		
		sn Us	Pending Expired	02-May-2000 02-Jun-1999	563,197		
FE-00387	Low-Power CMOS Device and Logic Gates/Circuits Therewidth	wits Therev	width				
		WO	Pending	22-Jun-2000	US00/11887		
		SN	Expired	09-Nov-1999	60/164,343		
		ns	Expired	23-Jun-1999	60/140,361		
		ns	Pending	21-Jun-2000	598,681		

CaseNumber Title	r Title	Country Status	Status	File Date	File Date ApplNumb	Issue Date	PatNumber
FE-00391	Single Event Upset (SEU) Hardened Static Random Access Memory Cell	om Access I	Memory Cell		:		
		กร	Expired	28-May-1999	60/136,479		
		SN	Pending	17-Nov-1999	441,942		
		Sn	Pending	30-Aug-2000	651,155		
		Ε̈́Ρ	Pending	17-Nov-1999	US99/27301		
FE-00397	Circuit and Method For Limiting Inrush Current Through A Mosfet Circuit and Method For Limiting Inrush Current Through A Transistor/102	Through A	Mosfet Transistor/1	02			
	·	Sn	Expired	30-Dec-1999	60/174,059		
		WO	Unfiled			•	
		SO	Pending	12-Jun-2000	591,958		
FE-00398	Integrated Resistor Having Aligned Body and Contact and Method for Forming The Same	ontact and A	Method for Fa	ırming The Sa	me		
		SN	Provision	21-Jan-2000	60/178,247		
FE-00406	Storage Unit Subassembly Insertion/Extraction Tool	Tool					
		ns	Expired	17-Feb-1999	60/120,328		
FE-00410	Computer Device Having Multiple Linked Parallel Busses and Associated Method	lel Busses a	nd Associate	d Method			
		SN	Pending	14-Sep-2000			
FE-00414	Self-Restoring Single Event Upset (SEU) Hardened Multiport Memory Cell	ned Multipo	rt Memory C	ell			
		US	Expired	28-May-1999	60/136,478		
		wo	Pending	15-May-2000	US00/13095		
		SN	Pending	20-Apr-2000	553,595		

CaseNumber Title FE-00422 Syste	r Title System and Method of Providing a Spread Spectrum Pulse Wilth Modulator Clock	Country Status rum Pulse Width A	Status Width Modu	File Date lator Clock	File Date ApplNumb • Clock	Issue Date	PatNumber
		SD S	Expired	18-Oct-1999	60/159,974		
		Sn	Pending	12-Jun-2000	Usa00/28/48 591,731		
FE-00424	Multiplexor Having A Single Event Upset (SEU) Immune Data Keeper Circuit	Immune De	na Keeper C	ircuit			
9CF00-3:3	US Pending 08-Jun-2000 Oscillator and Mathod Ear Generation J General Within A Sold Designation	US Widhim	Pending	08-Jun-2000	589,732		
				Jurus Junuse			
FE-00431	Method For Testing Known Good Die	us	Provision	05-Nov-1999	60/163,757	٠	
		NS	Pending	24-Jul-2000	624,247		
		Sn	Expired	25-Oct-1999	60/161,418		
FE-00432	Method and Apparatus for a Single Event Upset (SEU) Tolerant Clock Splitter	(SEU) Tole	rant Clock S	plitter			
		SN	Expired	30-Apr-1999	60/131,925		
		WO	Pending	28-Apr-2000	US00/11349		
		US.	Pending	28-Apr-2000	559,659		
FE-00434	Tool Suite for the Rapid Development of Advanced Standard Cell Libraries	ed Standara	l Cell Librai	ies			
		SN	Pending	20-Jun-2000	597,229		
FE-00436	A Process For Removing A Silicon-Containing Material Through Use Of A Byproduct Generated During Formation Of A Diffusion Barrier Layer	faterial Th	rough Use O	f A Byproduct	Generated Du	ring Formation	ı Of A
		ns	Unfiled				•

CaseNumber Tide FE-00439 Incre	r Tide Increasing The Susceptability Of Integrated Circuits To Ionizing Radiation	Country Status wits To Ionizing Re	Status izing Radiat		File Date ApplNumb	Issue Date	PatNun
FE-00442	US Expired 11-Ju US Pending 09-Ju Semiconductor Circuit Having Increased Susceptibility To Ionizing Radiation	US US tibility: To .	Expired Pending fonizing Rad	11-Jun-1999 09-Jun-2000 Tation	60/138,718 590,805		
FE-00443	US Pending 09-Jun-21 US Expired 11-Jun-15 Semiconductor Device And Circuit Having Low Tolerance To Ionizing Radiation	us us Tolerance	Pending Expired To Ionizing I	09-Jun-2000 11-Jun-1999 Radiation	592,4.3 60/138,720		·
FE-00444	US Pending US Expired Apparatus And Method For Manufacturing A Semiconductor Circuit	US US miconducto	Pending Expired or Circuit	09-Jun-2000 11-Jun-1999	590,806 60/138,721		
FE-00449	US Pending 09-Jun-2000 Method to Harden Shallow Trench Isolation Against Total Ionizing Dose Radiation	US ninst Total	Pending Ionizing Dos	09-Jun-2000 ee Radiation	590,809		
FE-00450	US Pending 31-Jul-2000 US Expired 02-Aug-1999 601 A New Radiation-Hardened Technique For Preventing Latches From Single Event Upsets	US US enting Late	Pending Expired Trom Si	31-Jul-2000 02-Aug-1999 ingle Event Up	60/146,895 sets	·	
FE-00451	U Radiation Hardened High Speed Differential Driver	us iver	Provfiled	11-Aug-2000	60/224,649		
		Sn	Expired	20-Jul-1999	60/144,731		
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CaseNumber Title FE-00453 Radi	r Title Radiation Hardened High Speed Differential Receiver	Country Status iver	Status	File Date	File Date ApplNumb	Issue Date	PatNumber
FE-00456	US Expired 20-Jul-1999 Radiation Hardened Silicon-On-Insulator (SOI) Transistor Having A Body Contact	us ramsistor I	Expired Having A Boo	20-Jut-1999 ly Contact	60/144,625		
F.E-00458	US Pendi US Explia Circuit For Filtering Single Event Effect (SEE) Induced Glitches	us us duced Gli	Pending Expired (ches	01-Aug-2000 23-Dec-1999	630,216 60/171,569		
		sn Sn Sm	Pending Expired	30-Aug-2000 07-Sep-1999 06:Sep-2000	651,156 60/152,348 US00/2421		
FE-00462	Method and Apparatus Radiation Hardened Clock Splitter	Splitter	3				
FE-00464	Single Event Upset Immune Oscillator Circuit	NS	Provision	28-Apr-2000	60/200,348		
FE-00469	US Pending Redundant Oscillator and Method For Generating A Regulated Signal	us ; A Regula	Pending Ited Signal	21-Sep-2000	667,040		
FE-00470	US Pending Controlled Hermetic Solder Sealing For Large Perimeter Components	us erimeter C	Pending omponents	10-Aug-2000	636,125		
		sn Ns	Abandone Expired	20-Jan-2000 18-Jan-2000	60/177,234 60/176,574		÷

CaseNumber Title FE-00471 Integ	r Title Integrated Circuits Containing Transistors Operable With Two Power Supply Voltages	Country Status ble With Two Pov	Status wo Power Sup	File Date ApplNumb pply Voltages	4pplNumb	Issue Date	PatNumbe
FE-00475	Voltage Step-Up Output Buffer With Low Stress	sn Us	Unfiled Provfiled ·	11-Aug-2000 (60/224,650		
FE-00476	U Structured Login After Satellite Service Interruption	sn "o	Expired	30-May-2000 (60/207,913		·
FE-00480	Self-Oscillating Switching Regulator	ns	Expired	18-Jan-2000 (60/176,606	·	
FE-00481	A Radiation Tolerant Storage Array Sense Latch	ns	Pending	03-Oct-2000			
FE-00483	US Polyphaxe-DFT Sub-band Definition Filtering Architecture	us chitecture	Provfiled	11-Aug-2000	60/224,648		
FE-00486	US Provision 1 Use of Chalcogenide For Programming Fuses In RAM's or Other Devices	US RAM's or C	Provision Other Devices	1-Feb-2000	60/181,512		
FE-00489	Direct Chip Attach Micro-CGA	Sn	Provision	02-May-2000	60/201,122		
		SN	Unfiled				

CaseNumber Tide FE-00491 Rad	er Tide Rad Hard Ring Oscillator	Country Status	Status	File Date	File Date ApplNumb	Issue Date PatNumber	PatNumber
FE-00492	Single Event Upset Immune Lagic Family	S	Unfiled				
FE-00498	US Provisi US Unlilec A Sense Amp Scheme Hardened for Dynamic Single Event Upsets	US US yle Event U	noi 1	12-May-2000	60/203,895		·
FE-00503	Remote Pictures	NS N	Provision	06-Jun-2000	60/209,665	٠	
FE-00505	Reduced Stress Interface Column Grid Array	S	Unfiled		-		
FE-00508	Remofe Sonar Buoys	S	Unfiled				
FE-00512	Method For Advanced Fill Pattern Creation	NS N	Unfiled				
FE-00513	US Power Conservation Circuit Using The "Seebeck" Effect	us " Effect	Unfiled				
		SN	Unfiled				
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CaseNumber Title FE-00515 Meth	r Title Method Of Forming and Applications of Micropipes and Chalcogenide Waveguides	Country Status	Status alcogenide Wa	File Date ApplNumb rveguides	ppiNumb	Issue Date	Issue Date PatNumber
FE-00516	Fault Isolation Test Methodology	NS	Unfiled				
FE-00521	US Unfiled Novel High-Density High-Performance CMOS SRAM Cell Design	US RAM Cell L	Unfiled <i>Jesign</i>				
FE-00522	US Unliled Novel CMOS SRAM Cell Design with Prescribed Power-On Data State US	US Power-On Pending	US Unfiled 'nver-On Data State Pending 25-Jul-2000	60/220,700		,	
FE-00527	Solder Column Attach	Open					
FE-00527	On-Chip High Speed Termination	Open					
FE-00528	An Institute Radiation Action of Integrated Circuits	<i>iits</i> Open					
FE-00539	Visitor Information System (VIS)	Open					

Small Area Sidewall Rapier Contact For Chalcogenide Memory Device

FE-00540

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EGA to CGA Conversion Process

FE-00542